Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.   (canceled)

2.   (currently amended) ~~The call admission control method according to claim 1, wherein~~ A call admission control method in a switch, comprising:

receiving a QoS (Quality of Service) specified connection request;

calculating an assigned bandwidth on a link associated with the QoS-specified connection request;

calculating an average bandwidth of all existing QoS-unspecified traffic on the link associated with the QoS-specified connection request, when calculating [[an]] the average bandwidth, the average bandwidth on the link is obtained based on an average QoS-unspecified traffic of each QoS-unspecified virtual connection existing on the link associated with the QoS-specified connection request; and

determining whether the QoS-specified connection request is accepted based on a combination of the assigned bandwidth and the average bandwidth.

3.   (currently amended) The call admission control method according to claim 2, wherein the average QoS-unspecified traffic is calculated by adding up the existing QoS-unspecified traffic obtained at predetermined sampling time intervals.

4.   (currently amended) ~~The call admission control method according to claim 1, wherein calculating an average bandwidth comprises:~~ A call admission control method in a switch, comprising:

receiving a QoS (Quality of Service) specified connection request;

calculating an assigned bandwidth on a link associated with the QoS-specified connection request;

calculating an average bandwidth of all existing QoS-unspecified traffic on the link associated with the QoS-specified connection request by:

adding up the existing QoS-unspecified traffic obtained at predetermined sampling time intervals to produce a first average QoS-unspecified traffic, [[;]]

sequentially storing [[a]] the first average QoS-unspecified traffic each time a corresponding QoS-unspecified connection is established at the switch, [[;]] and

calculating the average bandwidth by averaging a predetermined number of the stored first average QoS-unspecified traffic; and

determining whether the QoS-specified connection request is accepted based on a combination of the assigned bandwidth and the average bandwidth.

5.   (currently amended) ~~The call admission control method according to claim 1, wherein determining whether the QoS-specified connection request is accepted comprises~~ A call admission control method in a switch, comprising:

receiving a QoS (Quality of Service) specified connection request;

calculating an assigned bandwidth on a link associated with the QoS-specified connection request;

calculating an average bandwidth of all existing QoS-unspecified traffic on the link associated with the QoS-specified connection request; and

determining whether the QoS-specified connection request is accepted based on a combination of the assigned bandwidth and the average bandwidth by:

adding the assigned bandwidth and the average bandwidth to produce a currently assigned bandwidth on the link, [[;]]

calculating an available bandwidth of the link by subtracting the currently assigned bandwidth from a full bandwidth of the link, [[;]] and

determining whether the QoS-specified connection request is accepted, depending on a comparison of the available bandwidth and a requested bandwidth of the QoS-specified connection request.

6.   (currently amended) An admission control system, comprising:

a traffic monitor for monitoring a QoS-unspecified traffic for each QoS-unspecified connection existing on a plurality of links;

a memory for storing a cell traffic management table containing an average QoS-unspecified traffic for the each QoS-unspecified connection existing on the links; and

an admission manager for calculating an estimated bandwidth by adding up average QoS-unspecified traffic for all existing QoS-unspecified connections on a link associated with a QoS-specified connection request, wherein the estimated bandwidth is a bandwidth to be assigned to

the existing QoS-unspecified connections on the link, and determining whether the QoS-specified connection request is accepted based on a combination of the estimated bandwidth and an assigned bandwidth that is already assigned in the link.

7.   (currently amended) The admission control system according to claim 6, wherein [[an]] the average QoS-unspecified traffic is calculated by adding up existing QoS-unspecified traffic obtained at predetermined sampling time intervals.

8.   (previously presented) The admission control method according to claim 6, wherein the admission manager adds the assigned bandwidth and the estimated bandwidth to produce a currently assigned bandwidth on the link, calculates an available bandwidth of the link by subtracting the currently assigned bandwidth from a full bandwidth of the link, and determines whether the QoS-specified connection request is accepted, depending on a comparison of the available bandwidth and a requested bandwidth of the QoS-specified connection request.

9.   (currently amended) An admission control system, comprising:

a traffic monitor for monitoring a QoS-unspecified traffic for each QoS-unspecified connection existing on a plurality of links;

a calculator for adding up the existing QoS-unspecified traffic obtained at predetermined sampling time intervals to produce a first average QoS-unspecified traffic, and calculating an estimated bandwidth by averaging a predetermined number of the first average QoS-unspecified

traffic for the existing QoS-unspecified connections on [[a]] the link associated with a QoS-specified connection request, where the estimated bandwidth is a bandwidth to be assigned to the existing QoS-unspecified connections on the link;

a memory for storing a cell traffic management database sequentially containing [[a]] the first average QoS-unspecified traffic each time [[a]] the QoS-unspecified connection is established; and

an admission manager for determining whether the QoS-specified connection request is accepted based on a combination of the estimated bandwidth and an assigned bandwidth that is already assigned on the link.

10.   (previously presented) The admission control method according to claim 9, wherein the admission manager adds the assigned bandwidth and the estimated bandwidth to produce a currently assigned bandwidth on the link, calculates an available bandwidth of the link by subtracting the currently assigned bandwidth from a full bandwidth of the link, and determines whether the QoS-specified connection request is accepted, depending on a comparison of the available bandwidth and a requested bandwidth of the QoS-specified connection request.

11.   (canceled)

12.   (currently amended) ~~The admission control system according to claim 11, wherein~~ An admission control system, comprising:

a controller to receive a QoS (Quality of Service) specified connection request associated with a link; and

an admission manager to:

determine an assigned bandwidth on the link,

determine an average bandwidth of all existing QoS-unspecified traffic on the link, the average bandwidth on the link [[is]] being determined based on an average QoS-unspecified traffic of each QoS-unspecified virtual connection existing on the link, and

determine whether the QoS-specified connection request is accepted based on a combination of the assigned bandwidth and the average bandwidth.

13.   (currently amended) The admission control system according to claim 12, wherein the average QoS-unspecified traffic is determined by adding up the existing QoS-unspecified traffic obtained at predetermined sampling time intervals.

14.   (currently amended) ~~The admission control system according to claim 11, wherein~~ An admission control system, comprising:

a controller to receive a QoS (Quality of Service) specified connection request associated with a link; and

an admission manager to:

determine an assigned bandwidth on the link,

determine an average bandwidth of all existing QoS-unspecified traffic on the link, the average bandwidth [[is]] being determined by:

adding up the existing QoS-unspecified traffic obtained at predetermined

sampling time intervals to produce a first average QoS-unspecified traffic,

sequentially storing [[a]] the first average QoS-unspecified traffic each

time a corresponding QoS-unspecified connection is established, and

calculating the average bandwidth by averaging a predetermined number

of the stored first average QoS-unspecified traffic, and

determine whether the QoS-specified connection request is accepted based on a

combination of the assigned bandwidth and the average bandwidth.

15. (currently amended) ~~The admission control system according to claim 11,~~

~~wherein when determining whether the QoS-specified connection request is accepted, the~~

~~admission manager is configured to~~ An admission control system, comprising:

a controller to receive a QoS (Quality of Service) specified connection request associated

with a link; and

an admission manager to:

determine an assigned bandwidth on the link,

determine an average bandwidth of all existing QoS-unspecified traffic on the

link, and

determine whether the QoS-specified connection request is accepted based on a

combination of the assigned bandwidth and the average bandwidth by:

[[add]] adding the assigned bandwidth and the average bandwidth to

produce a currently assigned bandwidth on the link,

~~calculate~~ calculating an available bandwidth of the link by subtracting the

currently assigned bandwidth from a full bandwidth of the link, and

~~determine~~ determining whether the QoS-specified connection request is

accepted, depending on a comparison of the available bandwidth and a requested

bandwidth associated with the QoS-specified connection request.

16.   (previously presented) An admission control system, comprising:

means for receiving a QoS (Quality of Service) specified connection request;

means for determining an assigned bandwidth on a link associated with the QoS-specified

connection request;

means for determining an average bandwidth of all existing QoS-unspecified traffic on

the link;

means for adding the assigned bandwidth and the average bandwidth to produce a

currently assigned bandwidth on the link;

means for determining an available bandwidth of the link by subtracting the currently

assigned bandwidth from a full bandwidth of the link; and

means for determining whether the QoS-specified connection request is accepted,

depending on a comparison of the available bandwidth and a requested bandwidth associated

with the QoS-specified connection request.